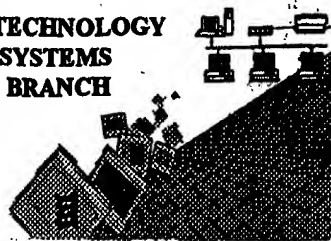


**BIOTECHNOLOGY  
SYSTEMS  
BRANCH**



**RAW SEQUENCE LISTING  
ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/937,027  
Source: PT/09  
Date Processed by STIC: 6/5/2002

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom!

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER:

09/937,027

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10      Invalid <213>  
    Responses  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT09

## RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/09/937,027

TIME: 17:34:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

**Does Not Comply**  
**Corrected Diskette Needed**

W--> 1 <sup>delete</sup> 1  
 6 <110> APPLICANT: ZANGER, Ulrich  
 8 <120> TITLE OF INVENTION: Polymorphisms in the human CYP2B6 gene  
 9 and their use in diagnostic and therapeutic  
 10 applications  
 12 <130> FILE REFERENCE: VOS-19  
 14 <140> CURRENT APPLICATION NUMBER: US/09/937,027  
 15 <141> CURRENT FILING DATE: 2002-05-02  
 17 <150> PRIOR APPLICATION NUMBER: PCT/EP01/01456  
 18 <151> PRIOR FILING DATE: 2001-02-09  
 20 <160> NUMBER OF SEQ ID NOS: 64  
 22 <170> SOFTWARE: PatentIn Ver. 2.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 18  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 31 amplification of the human genomic DNA to generate a polynucleotide  
 32 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 33 genotyping of individual CYP2B6 alleles.  
 35 <400> SEQUENCE: 1  
 36 acattcactt gctcacct 18  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 18  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 46 amplification of the human genomic DNA to generate a polynucleotide  
 47 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 48 genotyping of individual CYP2B6 alleles.  
 50 <400> SEQUENCE: 2  
 51 gtaaatacca cttgacca 18  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 24  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 61 amplification of the human genomic DNA to generate a polynucleotide  
 62 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 63 genotyping of individual CYP2B6 alleles.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,027

DATE: 06/05/2002

TIME: 17:34:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

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65 <400> SEQUENCE: 3
66     atcctactca gaatgatgca caac                                24
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 24
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
76     amplification of the human genomic DNA to generate a polynucleotide
77     which is capable of hybridizing to the CYP2B6 gene, and is useful for
78     genotyping of individual CYP2B6 alleles.
80 <400> SEQUENCE: 4
81     attacaggtg agagtcacatca catc                                24
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 19
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
91     amplification of the human genomic DNA to generate a polynucleotide
92     which is capable of hybridizing to the CYP2B6 gene, and is useful for
93     genotyping of individual CYP2B6 alleles.
95 <400> SEQUENCE: 5
96     ggtctgccca tctataaac                                19
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 21
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
106     amplification of the human genomic DNA to generate a polynucleotide
107     which is capable of hybridizing to the CYP2B6 gene, and is useful for
108     genotyping of individual CYP2B6 alleles.
110 <400> SEQUENCE: 6
111     ctgattcttc acatgtctgcg                                21
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 24
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
121     amplification of the human genomic DNA to generate a polynucleotide
122     which is capable of hybridizing to the CYP2B6 gene, and is useful for
123     genotyping of individual CYP2B6 alleles.
125 <400> SEQUENCE: 7
126     tccctgggat ttaactgtac tcac                                24
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 24
131 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,027

DATE: 06/05/2002

TIME: 17:34:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

132 <213> ORGANISM: Artificial Sequence  
 134 <220> FEATURE:  
 135 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 136 amplification of the human genomic DNA to generate a polynucleotide  
 137 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 138 genotyping of individual CYP2B6 alleles.  
 140 <400> SEQUENCE: 8  
 141 cagaattggc ttggttgga tcta 24  
 144 <210> SEQ ID NO: 9  
 145 <211> LENGTH: 21  
 146 <212> TYPE: DNA  
 147 <213> ORGANISM: Artificial Sequence  
 149 <220> FEATURE:  
 150 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 151 amplification of the human genomic DNA to generate a polynucleotide  
 152 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 153 genotyping of individual CYP2B6 alleles.  
 155 <400> SEQUENCE: 9  
 156 gacagaagga tgagggagga a 21  
 159 <210> SEQ ID NO: 10  
 160 <211> LENGTH: 22  
 161 <212> TYPE: DNA  
 162 <213> ORGANISM: Artificial Sequence  
 164 <220> FEATURE:  
 165 <223> OTHER INFORMATION: Description of Artificial Sequence: artificial  
 166 sequence (Please correct this error in subsequent sequences, if shown)  
 168 <400> SEQUENCE: 10  
 169 ctccctctgt ctttcattct gt 22 on Error  
 172 <210> SEQ ID NO: 11  
 173 <211> LENGTH: 23  
 174 <212> TYPE: DNA  
 175 <213> ORGANISM: Artificial Sequence  
 177 <220> FEATURE:  
 178 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 179 amplification of the human genomic DNA to generate a polynucleotide  
 180 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 181 genotyping of individual CYP2B6 alleles.  
 183 <400> SEQUENCE: 11  
 184 gtgattattc attaattggg ttc 23  
 187 <210> SEQ ID NO: 12  
 188 <211> LENGTH: 21  
 189 <212> TYPE: DNA  
 190 <213> ORGANISM: Artificial Sequence  
 192 <220> FEATURE:  
 193 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR  
 194 amplification of the human genomic DNA to generate a polynucleotide  
 195 which is capable of hybridizing to the CYP2B6 gene, and is useful for  
 196 genotyping of individual CYP2B6 alleles.  
 198 <400> SEQUENCE: 12

insufficient - give source of  
 genetic material  
 (see item 11  
 on Error  
 summary  
 sheet)

DATE: 06/05/2002

TIME: 17:34:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

```

199      tgcaatgggt gattgatgct c                               21
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 23
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
209      amplification of the human genomic DNA to generate a polynucleotide
210      which is capable of hybridizing to the CYP2B6 gene, and is useful for
211      genotyping of individual CYP2B6 alleles.
213 <400> SEQUENCE: 13
214      tgagaatcag tggaagccat aga                               23
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 25
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
224      amplification of the human genomic DNA to generate a polynucleotide
225      which is capable of hybridizing to the CYP2B6 gene, and is useful for
226      genotyping of individual CYP2B6 alleles.
228 <400> SEQUENCE: 14
229      taattttcga taatctcact cctgc                               25
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 19
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
239      amplification of the human genomic DNA to generate a polynucleotide
240      which is capable of hybridizing to the CYP2B6 gene, and is useful for
241      genotyping of individual CYP2B6 alleles.
243 <400> SEQUENCE: 15
244      ataacagggt gcagaggca                               19
247 <210> SEQ ID NO: 16
248 <211> LENGTH: 20
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR
254      amplification of the human genomic DNA to generate a polynucleotide
255      which is capable of hybridizing to the CYP2B6 gene, and is useful for
256      genotyping of individual CYP2B6 alleles.
258 <400> SEQUENCE: 16
259      aagtaccaag gcaagaagca                               20
262 <210> SEQ ID NO: 17
263 <211> LENGTH: 19
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/09/937,027

TIME: 17:34:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

267 <220> FEATURE:

268 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR

269 amplification of the human genomic DNA to generate a polynucleotide

270 which is capable of hybridizing to the CYP2B6 gene, and is useful for

271 genotyping of individual CYP2B6 alleles.

273 <400> SEQUENCE: 17

274 ggctaattac caatctggt 19

277 <210> SEQ ID NO: 18

278 <211> LENGTH: 22

279 <212> TYPE: DNA

280 <213> ORGANISM: Artificial Sequence

282 <220> FEATURE:

283 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR

284 amplification of the human genomic DNA to generate a polynucleotide

285 which is capable of hybridizing to the CYP2B6 gene, and is useful for

286 genotyping of individual CYP2B6 alleles.

288 <400> SEQUENCE: 18

289 atatactccc ttccctgatg ca 22

292 <210> SEQ ID NO: 19

293 <211> LENGTH: 21

294 <212> TYPE: DNA

295 <213> ORGANISM: Artificial Sequence

297 <220> FEATURE:

298 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR

299 amplification of the human genomic DNA to generate a polynucleotide

300 which is capable of hybridizing to the CYP2B6 gene, and is useful for

301 genotyping of individual CYP2B6 alleles.

303 <400> SEQUENCE: 19

304 actcagagcc ttcttccaac t 21

307 <210> SEQ ID NO: 20

308 <211> LENGTH: 24

309 <212> TYPE: DNA

310 <213> ORGANISM: Artificial Sequence

312 <220> FEATURE:

313 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR

314 amplification of the human genomic DNA to generate a polynucleotide

315 which is capable of hybridizing to the CYP2B6 gene, and is useful for

316 genotyping of individual CYP2B6 alleles.

318 <400> SEQUENCE: 20

319 acctgcatct ctcaagtgtt catt 24

322 <210> SEQ ID NO: 21

323 <211> LENGTH: 20

324 <212> TYPE: DNA

325 <213> ORGANISM: Artificial Sequence

327 <220> FEATURE:

328 <223> OTHER INFORMATION: Description of Artificial Sequence: A primer for use in PCR

329 amplification of the human genomic DNA to generate a polynucleotide

330 which is capable of hybridizing to the CYP2B6 gene, and is useful for

331 genotyping of individual CYP2B6 alleles.

VERIFICATION SUMMARY

DATE: 06/05/2002

PATENT APPLICATION: US/09/937,027

TIME: 17:34:06

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\06052002\I937027.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date